

1 **WHAT IS CLAIMED IS:**

2 1. A method of making an emergency telephone call through the mobile
3 communications system, comprising the steps of:

4 preparing a portable automatic calling apparatus for fastening onto a
5 user's body;

6 saving telephone numbers of call receivers, with the area codes of the
7 receivers, in memory records created in the automatic calling apparatus;

8 establishing a regular line connection to a mobile communications
9 network using the portable automatic calling apparatus whenever the user moves
10 about from one place to another, especially when crossing over district
11 boundaries;

12 extracting local area code information from an initialization message of
13 the mobile communications network;

14 searching through memory records to locate a call receiver with the
15 same area code; and

16 transmitting an emergency call through the mobile communications
17 network to a nearest call receiver having the same area code when the emergency
18 button on the apparatus is pressed;

19 whereby when the user moves to a different district, the apparatus is still
20 able to update the location of the user and pick out a nearest call receiver to dial.

21 2. The method of making an emergency telephone call according to
22 claim 1, wherein the mobile communications network is operated with cellular
23 communications equipment.

24 3. The method of making an emergency telephone call according to

1 claim 2, wherein the cellular communications equipment is based on a
2 GSM/GPRS system.

3 4. The method of making an emergency telephone call according to
4 claim 1, wherein the call receiver is a hospital.

5 5. The method of making an emergency telephone call according to
6 claim 1, wherein the call receiver is an ambulance operator.

7 6. The method of making an emergency telephone call according to
8 claim 1, wherein the call receiver is a rescue operation center.

9 7. The method of making an emergency telephone call according to
10 claim 1, wherein the call receiver is a police station.

11 8. The method of making an emergency telephone call according to
12 claim 1, wherein the call receiver is a fire brigade.

13 9. The method of making an emergency telephone call according to
14 claim 1, wherein the call receiver is a family doctor.

15 10. The method of making an emergency telephone call according to
16 claim 1, wherein the call receiver is a related person of the user.

17 11. An automatic calling apparatus, comprising:

18 a microprocessor (10) being used for data processing and serving as a
19 control hub, where one input is connected to an emergency call button (11);

20 a memory module (12) being connected to the microprocessor (10) for
21 saving operation data, including the telephone numbers and area codes of call
22 receivers, and program instructions; and

23 a mobile communications interface (20) being connected to the
24 microprocessor (10), which is a GSM/GPRS communications module for

1 linking to a mobile communications network;

2 whereby the automatic calling apparatus, attached to the user, changes
3 the location whenever the user moves from one place to another, and the
4 apparatus is able to establish regular line connection with the mobile
5 communications network through the mobile communications interface (20),
6 such that the microprocessor (10) can extract local area code information of the
7 mobile communications network and use that information to search through
8 memory records to locate a nearest call receiver with the same area code, and
9 when the user actuates the emergency button (11), the microprocessor (10) uses
10 the telephone number of the nearest call receiver to dial.

11 12. The automatic calling apparatus according to claim 11, wherein the
12 mobile communications interface is a GSM/GPRS communications module.

13 13. The automatic calling apparatus according to claim 11, wherein the
14 automatic calling apparatus is installed in a personal computing device.

15 14. The automatic calling apparatus according to claim 13, wherein the
16 personal computing device is a notebook computer.

17 15. The automatic calling apparatus according to claim 13, wherein the
18 personal computing device is a flat panel computer.

19 16. The automatic calling apparatus according to claim 13, wherein the
20 personal computing device is a personal digital assistant (PDA).

21 17. The automatic calling apparatus according to claim 11, wherein the
22 automatic calling apparatus is incorporated in a repeater that has a diverse
23 communications interface linking to different network systems through a
24 personal computing device.